

GenCore version 4.5
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OM protein - protein search, using sw model

Run on: September 27, 2001, 16:42:23 ; Search time 26.6 Seconds
(without alignments)
933.568 Million cell updates/sec

Title: US-09-483-543a-9
Perfect score: 1733
Sequence: 1 KRGCAGNEDSERSSWYGR.....SGCGXGLEVLFGQPVKRGXG 326

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 219241 seqs, 76174552 residues
Total number of hits satisfying chosen parameters: 219241

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : PIR_68:*
1: PIR1:*
2: PIR2:*
3: PIR3:*
4: PIR4:*

Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	1612	93.0	304	2 I58394	C-Crk - mouse
2	1588	91.6	304	2 A45022	CRK-II - human
3	1379.5	79.6	305	1 A49011	c-Crk - chicken
4	1078	62.2	239	2 A46243	epidermal growth f
5	1052	60.7	204	2 B45022	CRK-1 - human
6	917.5	52.9	303	2 S41754	CRKL protein - hum
7	911.5	52.6	303	2 S58352	SH2/SH3 adaptor pr
8	834.5	48.2	259	2 A44988	transforming prote
9	818.5	47.2	232	1 TVFV10	transforming prote
10	236	13.6	211	2 A46444	SH2-SH3 adaptor pr
11	224	12.9	217	2 S26050	growth factor rece
12	224	12.9	217	2 A54688	modular adaptor Gr
13	224	12.9	217	2 A43321	growth factor rece
14	218	12.6	217	2 JT0664	growth factor rece
15	202	11.7	228	2 S25730	SH2-SH3 protein se
16	184	10.6	1291	2 S00666	1-phosphatidylinos
17	182	10.5	1097	2 T31504	hypothetical prote
18	178	10.3	1290	2 A36466	1-phosphatidylinos
19	177	10.2	1290	2 A31317	transforming prote
20	172.5	10.0	839	1 TVHUV	hypothetical prote
21	170	9.8	9.8	1 T17257	transforming prote
22	167	9.6	844	1 TVMSV	transforming prote
23	165	9.5	1270	2 T09194	adaptor protein in
24	164	9.5	1196	2 T14108	SH3-containing pro
25	161	9.3	1094	2 T13053	dynamlin associated
26	158.5	8.9	330	2 JE0376	Grb-2 related adap
27	154.5	8.9	878	2 I51940	gene VAV2 protein
28	152.5	8.8	1011	2 T13055	dynamlin associated
29	151.5	8.7	334	2 T33836	hypothetical prote

30	151	8.7	1168	1 MMAXIC	myosin heavy chain
31	150	8.7	443	2 T27877	hypothetical prote
32	150	8.7	960	1 A39651	discs-large tumor
33	149.5	8.6	639	2 T13151	adaptor protein CM
34	148.5	8.6	1113	1 A47106	myosin heavy chain
35	148	8.5	290	2 T42526	hypothetical prote
36	147	8.5	1044	2 S01966	hypothetical prote
37	146.5	8.5	1038	2 JT0663	GTPase-activat
38	146	8.4	946	2 T38100	ras GTPase-activat
39	144.5	8.3	1047	2 A40121	rho-GTPase-activat
40	143.5	8.3	870	2 B40121	GTPase-activating
41	142	8.2	450	2 A41973	protein-tyrosine k
42	141	8.1	665	2 JC7191	85k c-Cbl-interact
43	139.5	8.0	1236	1 A53970	1-phosphatidylinos
44	139	8.0	359	2 S27788	neutrophil oxidase
45	139	8.0	557	2 A00629	protein-tyrosine k

ALIGNMENTS

RESULT 1
I58394
c-Crk : mouse
C:Species: Mus sp. (mouse)
C:Date: 26-Jul-1996 #sequence_revision 26-Jul-1996 #text_change 16-Jul-1999
C:Accession: I58394
R:Ogawa, S.; Toyoshima, H.; Kozutsun, H.; Hagihara, K.; Sakai, R.; Tanaka, T.; Hiran
Onogene 9, 1669-1678, 1994
A>Title: The C-terminal SH3 domain of the mouse c-Crk protein negatively regulates ty
A:Reference number: I58394; M0ID:94239744
A:Accession: I58394
A>Status: preliminary; translated from GB/EMBL/DBJ
A:Molecule type: mRNA
A:Residues: 1-304 <RES>
A:Cross-references: GB:S72408; MTD:9632866; PIDN:AAB30755.1; PID:9632867
C:Genetics:
A:Gene: c-crk
C:Superfamily: crk transforming protein; SH2 homology; SH3 homology
F:13-118/Domain: SH2 homology <SH2>
F:139-187/Domain: SH3 homology <SH3>

Query Match	93.0%; Score 1612; DB 2; Length 304;
Best Local Similarity	100.0%; Pred. No. 3.9e-113;
Matches 303; Conservative	0; Mismatches 0; Indels 0; Gaps 0;
QY	5 AGNFDSEERSWYGRSLRQENAVALLQGRHGVFLVRODSTSPGDVLSVSENSRSHYI 64
DB	2 AGNFDSEERSWYGRSLRQENAVALLQGRHGVFLVRODSTSPGDVLSVSENSRSHYI 61
QY	65 INSSGPRPPVPPAPPPGCVSPSLRTIGQEPDLSLPALEFFKIHVLDPTTLIEPVARS 124
DB	62 INSSGPRPPVPPAPPPGCVSPSLRTIGQEPDLSLPALEFFKIHVLDPTTLIEPVARS 121
QY	125 RQSGSVILRQEAQYRALDFENGDEEDLPFKGDIILRIKPEQWMAADSEGRKM 184
DB	122 RQSGSVILRQEAQYRALDFENGDEEDLPFKGDIILRIKPEQWMAADSEGRKM 181
QY	185 IPPVYEKYPASASVSLIGNQBESHQPLGPGPGYAPQSVNPLPNQNGPIYAR 244
DB	182 IPPVYEKYPASASVSLIGNQBESHQPLGPGPGYAPQSVNPLPNQNGPIYAR 241
QY	245 VIKRPNAYDKTALALEVQELVKYKINVSQWEGECNGKRGHPFTIVRLDQONPDE 304
DB	242 VIKRPNAYDKTALALEVQELVKYKINVSQWEGECNGKRGHPFTIVRLDQONPDE 301
QY	305 DFS 307
DB	302 DFS 304
RESULT	2

A45022
CRK-II - human
C:Species: Homo sapiens (man)
C>Date: 17-Feb-1994 #sequence_revision 17-Feb-1994 #text_change 20-Jun-2000
C:Accession: A45022
R:Matsumura, M.; Tanaka, S.; Nagata, S.; Kojima, A.; Kurata, T.; Shibuya, M.
Mol. Cell. Biol. 12, 3482-3489, 1992
A:Title: Two species of human CRK cDNA encode proteins with distinct biological activities
A:Reference number: A45022; MUID:92334347
A:Accession: A45022
A:Status: preliminary
A:Molecule type: mRNA
A:Residues: 1-304 <MAY>
A:Cross-references: GB:D10656; NID:g219554; PIDN:BA01505.1; PID:g219555
A:Experimental source: placenta
A>Note: sequence extracted from NCBI backbone (NCBIN:108769, NCBIPI:108770)
C:Superfamily: crk transforming protein; SH2 homology; SH3 homology
F:13-119/Domain: SH2 homology #status atypical <SH2>
F:139-187/Domain: SH3 homology <SH3>

Query Match 91.6%; Score 1588; DB 2; Length 304;
Best Local Similarity 98.7%; Pred. No. 2.4e-111;
Matches 299; Conservative 1; Mismatches 3; Indels 0; Gaps 0;

QY 5 AGNFDSEERSWYMGRLSROEAVALLQGRHGVFLVRDSTSPGDYVLSVSENSRVSHYI 64
DB 2 AGNFDSEERSWYMGRLSROEAVALLQGRHGVFLVRDSTSPGDYVLSVSENSRVSHYI 61
QY 65 INSSGPRPPVPSPAPQPPGVPSPRLRIGDPEFSLPALLEFYKIHVLDTTLLIEPVARS 124
DB 62 INSSGPRPPVPSPAPQPPGVPSPRLRIGDPEFSLPALLEFYKIHVLDTTLLIEPVARS 121
QY 125 ROSSGVILROEAEVYRALDFPENGDEEDLPFKKGDIILRDKPERQWMAEDSEGRGM 184
DB 122 ROSSGVILROEAEVYRALDFPENGDEEDLPFKKGDIILRDKPERQWMAEDSEGRGM 181
QY 185 IPVPYVEKYRPASASVSALIGNQEGSHPOPLGPEPGPYAQPVSNTPLPRLNONGPIYAR 244
DB 182 IPVPYVEKYRPASASVSALIGNQEGSHPOPLGPEPGPYAQPVSNTPLPRLNONGPIYAR 241
QY 245 VIOKRVPNAVDTALALEVGLVYKTKINVSQWEGECNGKRGHFFTHVRLDQONPD 304
DB 242 VIOKRVPNAVDTALALEVGLVYKTKINVSQWEGECNGKRGHFFTHVRLDQONPD 301
QY 305 DFS 307
DB 302 DFS 304

RESULT 3
A45011
c-Crk - chicken
C:Species: Gallus gallus (chicken)
C>Date: 10-Sep-1999 #sequence_revision 10-Sep-1999 #text_change 10-Sep-1999
C:Accession: A49011
R:Reichman, C.T.; Mayer, B.J.; Keshav, S.; Hanafusa, H.
Cell Growth Differ. 3, 451-460, 1992
A:Title: The product of the cellular crk gene consists primarily of SH2 and SH3 regions.
A:Reference number: A49011; MUID:93041379
A:Accession: A49011
A:Status: preliminary
A:Molecule type: mRNA
A:Residues: 1-305 <REI>
A:Cross-references: GB:L08168; GB:M32398; NID:g212527; PIDN:AAA49001.1; PID:g212528
A:Experimental source: embryo, brain
A>Note: sequence extracted from NCBI backbone (NCBIN:117106, NCBIPI:117107)
C:Superfamily: crk transforming protein; SH2 homology; SH3 homology
F:13-119/Domain: SH2 homology <SH2>
F:140-188/Domain: SH3 homology <SH3>

Query Match 79.6%; Score 1379.5; DB 1; Length 305;

Best Local Similarity 84.5%; Pred. No. 9e-96;
Matches 257; Conservative 19; Mismatches 27; Indels 1; Gaps 1;

QY 5 AGNFDSEERSWYMGRLSROEAVALLQGRHGVFLVRDSTSPGDYVLSVSENSRVSHYI 64
DB 2 AGNFDSEERSWYMGRLSROEAVALLQGRHGVFLVRDSTSPGDYVLSVSENSRVSHYI 61
QY 65 INSSGPRPPVPSPAPQPPGVPSPRLRIGDPEFSLPALLEFYKIHVLDTTLLIEPVARS 123
DB 62 INSSGPRPPVPSPAPQPPGVPSPRLRIGDPEFSLPALLEFYKIHVLDTTLLIEPVARS 121
QY 124 ROSSGVILROEAEVYRALDFPENGDEEDLPFKKGDIILRDKPERQWMAEDSEGRGM 183
DB 122 ROSSGVILROEAEVYRALDFPENGDEEDLPFKKGDIILRDKPERQWMAEDSEGRGM 181
QY 184 MPVPYVEKYRPASASVSALIGNQEGSHPOPLGPEPGPYAQPVSNTPLPRLNONGPIYAR 243
DB 182 MPVPYVEKYRPASASVSALIGNQEGSHPOPLGPEPGPYAQPVSNTPLPRLNONGPIYAR 241
QY 244 VIOKRVPNAVDTALALEVGLVYKTKINVSQWEGECNGKRGHFFTHVRLDQONPD 303
DB 242 VIOKRVPNAVDTALALEVGLVYKTKINVSQWEGECNGKRGHFFTHVRLDQONPD 301
QY 304 EDFS 307
DB 302 EDFS 305

RESULT 4
A46243
epidermal growth factor-receptor-binding protein GRB-3 - mouse (fragment)
C:Species: Mus musculus (house mouse)
C>Date: 22-Sep-1993 #sequence_revision 18-Nov-1994 #text_change 12-Feb-1999
C:Accession: A46243
R:Magoulis, B.; Silvenoinen, O.; Comoglio, F.; Roonprapant, C.; Skolnik, E.; Ullrich
Proc. Natl. Acad. Sci. U.S.A. 89, 8894-8898, 1992
A:Title: High-efficiency expression/cloning of epidermal growth factor-receptor-binding
A:Reference number: A46243; MUID:93028373
A:Accession: A46243
A:Status: preliminary; not compared with conceptual translation
A:Molecule type: nucleic acid
A:Residues: 1-239 <MAR>
A>Note: sequence extracted from NCBI backbone (NCBIPI:115326)
C:Superfamily: crk transforming protein; SH2 homology; SH3 homology
C:Keywords: growth factor receptor
F:44-149/Domain: SH2 homology <SH2>
F:170-218/Domain: SH3 homology <SH3>

Query Match 62.2%; Score 1078; DB 2; Length 239;
Best Local Similarity 99.5%; Pred. No. 2.1e-73;
Matches 206; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 5 AGNFDSEERSWYMGRLSROEAVALLQGRHGVFLVRDSTSPGDYVLSVSENSRVSHYI 64
DB 33 AGNFDSEERSWYMGRLSROEAVALLQGRHGVFLVRDSTSPGDYVLSVSENSRVSHYI 92
QY 65 INSSGPRPPVPSPAPQPPGVPSPRLRIGDPEFSLPALLEFYKIHVLDTTLLIEPVARS 124
DB 93 INSSGPRPPVPSPAPQPPGVPSPRLRIGDPEFSLPALLEFYKIHVLDTTLLIEPVARS 152
QY 125 ROSSGVILROEAEVYRALDFPENGDEEDLPFKKGDIILRDKPERQWMAEDSEGRGM 184
DB 122 ROSSGVILROEAEVYRALDFPENGDEEDLPFKKGDIILRDKPERQWMAEDSEGRGM 181
QY 184 MPVPYVEKYRPASASVSALIGNQEGS 211
DB 213 IPVPYVEKYRPASASVSALIGNQEGS 239

RESULT 5
B45022
CRK-I - human

C:Species: Homo sapiens (man)
C:Date: 10-Jun-1993 #sequence_revision 18-Nov-1994 #text_change 12-Feb-1999
C:Accession: B45022
R:Matsumi, M.; Tanaka, S.; Nagata, S.; Kojima, A.; Kurata, T.; Shibuya, M.
Mol. Cell. Biol. 12, 3483-3489, 1992
A:Title: Two species of human CRK cDNA encode proteins with distinct biological activities
A:Reference number: A45022; MUID:92334347
A:Accession: B45022
A:Status: preliminary
A:Molecule type: mRNA
A:Residues: 1-204 <MAT>
A:Experimental source: embryonic lung cells
A:Note: Sequence extracted from NCBI backbone (NCBIN:108771, NCBIPI:108772)
C:Superfamily: crk transforming protein; SH2 homology; SH3 homology
F:113-118/Domain: SH2 homology <SH2>
F:119-187/Domain: SH3 homology <SH3>

Query Match	60.7%	Score 1052	DB 2	Length 204
Best Local Similarity	99.0%	Pred. No. 1.5e-71		
Matches 200; Conservative	1;	Mismatches	1;	Indels 0; Gaps 0

OY 5 AGNFDSEERSRWYWGRLSRQEAVALLOGQRHGFLVRDSTSPGDVYLVSSENSRVSHYI 64
 |||||
Ddb 2 AGNFDEEERSWYWGRLSRQEAVALLOGQRHGFVLVRDSTSPGDVYLVSENSRVSHYI 61

QY 65 INSSGPRPPVPSPAQPPGVPSRLRGDQEFDSLPALEFYKIHYLDTTTLIEPARS 124
|||||
62 INSSGPRPPVPSPAQPPGVPSRLRGDQEFDSLPALEFYKIHWDITTLIEPVSRS 121

0Y 125 RQGSVILRQEAEYVALFDNGNDEEDLPFKKGDI LRDKP EQWMNAEDSEGRGM 184
|||||
Db 122 RQGSVILRQEAEYVALFDNGNDEEDLPFKKGDI LRDKP EQWMNAEDSEGRGM 181

Db 182 IPVPYVEKYRPASASVSALIGG 203

```

RESULT      6
S41754
CRKL protein - human
C:Species: Homo sapiens (man)
C:Date: 13-Jan-1995 #sequence_revision 13-Jan-1995 #text_change 16-Jul-1999
C:Accession: S41754
R:ten Hoeve, J.; Morris, C.; Heisterkamp, N.; Groffen, J.
Oncogene 8, 2469-2474, 1993
A:title: Isolation and chromosomal localization of CRKL, a human crk-like gene.
A:Reference number: S41754; MUID:93368949
A:Accession: S41754
A:Status: preliminary
A:Molecule type: DNA
A:Residues: 1-303 <TEN>
A:Cross-references: EMBL:X59656; NID:g416519; PIDN:CAAA2199.1; PID:g416520
C:Superfamily: crk transforming protein; SH2 homology <SH2>
F:14-102/Domain: SH2 homology <SH2>
F:130-178/Domain: SH3 homology <SH3>

```

Query Match	52.9%	Score	917.5	DB	2	Length	303
Best Local Similarity	56.6%	Pred	No. 2.7e-61				
Matches	165	Conservative	33	Mismatches	56	Indels	53
						Gaps	6

```
QY      5 AGNFSEERSRWYWGRLSRQGEAVALLQGORHGVLVYRDSSTSPGDVYLVSSENSRVSHYI   64
        :   | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
Db      3 SARFSSDRSAWYMGPVSRQGEQTRLGCRHGMFLVRDSTCPGDVYLVSVENSRSVSHYI   62
```

```

09      INSSGRRPVPBPSPAGPPGVSSRLRLIGDQEFPSLPALLEEYKHYLDPTTLLIEPAR-123
      ||| |-----|:||||||| ||||||| ||||||| ||||||| |
Db 63 INSLPAR-----RFGIGDQEFHLLPALLEEYKHYLDPTTLLIEPAR 105

```

```

124 -----SKUSSGVILKUEEAEI VKALFI DE NGNNEEDUFI NKGIDILRI KDNPEEEQWNNAD I //
      |   :    :    :    :    :    :    :    :    :    :    :    :    :    :    :

```

[illegible]

RESULT 7
S58352
SH2/SH3 adaptor protein - mouse

C/Species: Mus musculus (house mouse)
C/Date: 14-Jan-1996 #sequence_revision 01-Mar-1996 #text_change 16-Jul-1999
C/Accession: S58352
R:de Jong, R.; Haatjra, E.; Voncken, J.W.; Heisterkamp, N.; Groffen, J.

Submitted to the EMBL Data Library, August 1992
A:Description: Tyrosine phosphorylation of murine Crk1
A:Reference number: S58352
A:Accession: S58352

A: Molecule type: mRNA
A: Residues: 1-303 <DEU>
A: Cross-references: EMBL:X90648; NID:g945008; PIDD:CAAC2220.1; PTD:g945009

F;14-102/Domain: SH2 homology <SH2>
F;130-178/Domain: SH3 homology <SH3>

Query Match	52.6%;	Score 911.5;	DB 2;	Length 303;
Best Local Similarity	56.0%;	Pred. No. 7.7e-61;		
Matches 183; Conservative	34;	Mismatches 57;		
			Indels 53;	Gaps 6;

Db 3 SARFSSDRSAMYGPYTRQEAQTRLQCGRHGMFLVRDSSSTCPGDVLSVSENSRVSHYI 62

```

Db      63  INSLNR-----RFGIGQEFDFHLPALEFFYKIHLDITTLIEPAPRY 105
Ov     124  -----SROGSGVILROEAFYVRALPDENGNDDEEDLPEFKGGDILIRIDRKEEOWNNAED 177

```

Db 106 PSPPGVSADNLPFAEENLEYRTLYDEPPGNDADLPFRKGELLVILEKEPEQWNSART 165
QY 178 SEGKRCMIPVPVEKIRPASASYSVALIGNOECSH---PQLGGEPEG-DYAQPSVNTP 232

Db 166 KDRGCMIPBVEK-----LVRSSPHGKGNRNSNSYGIPEPAHAYAQPTTTP 215

QY 233 LPNL-----QNGPIYARVIQKRVPAAYDKTLLALEYGLVYKTKINVSQW 278

Db 216 LPTVASTPGAIINLPSTQNGPVEFAKAIQKRVPCAYDKTALALEVGDIVKVTMRNINGQW 275

QY 279 EGECKGRGHFPETHVRLDDQNPDED 305

```
Db      276 EGEVNGRKGLFPFTHVKIFDPQNPDDN 302
RESULT 8
```

A44988
transforming protein (gag-crk) - avian sarcoma virus (fragments)
C:Species: avian sarcoma virus
C:Date: 28-Apr-1993 #sequence revision 14-May-1993 #text change 07-May-1999

A; Title: A newly isolated avian sarcoma virus, ASV-1, carries the *c-rk* oncogene

A:Reference number: A44988; MUID:90045469
A:Accession: A44988
A:Status: preliminary
A:Molecule type: DNA
A:Residues: 1-259 <TSU>
A:Cross-references: GB:X17292
A:Note: the authors translated the codon CGG for residue 79 as Gly, and CAG for residues C:67-117/Domain: SH2 homology <SH2>
E:67-117/Domain: SH2 homology
E:194-242/Domain: SH3 homology <SH3>

Query Match	48.2%	Score 834.5;	DB 2;	Length 259;
Best Local Similarity	78.3%;	Pred. No. 3.5e-55;		
Matches 159;	Conservative 17;	Mismatches 26;	Indels 1;	Gaps 1

[illegible]

RESULT 9
TVEV10
transforming protein crk - avian sarcoma virus CT10
C:Species: avian sarcoma virus CT10
C:Date: 30-Sep-1989 #sequence_rev1sion 30-Sep-1989 #text_change 03-Mar-1995
C:Accession: B29851
R:Mayer, B.J., Hanaguchi, M., Hanafusa, H.
Nature 332, 272-275, 1988
A:Title: A novel viral oncogene with structural similarity to phospholipase C.
A:Reference number: 500872; M0ID:88156964
A:Accession: B29851
A:Molecule type: genomic RNA
A:Residues: 1-232 <MAY>
A:Cross-references: EMBL:Y00302
C:Genetics:
A:Gene: crk
C:Superfamily: crk transforming protein; SH2 homology; SH3 homology
C:Keywords: transforming protein
F:40-146/Domain: SH2 homology #status atypical <SH2>
F:167-215/Domain: SH3 homology <SH3>

Query Match	47.2%	Score 818.5;	DB 1;	Length 232;
Best Local Similarity	77.3%	Pred. No. 4.8e-54;		
Matches 157;	Conservative 16;	Mismatches 29;	Indels 1;	Gaps 1

[illegible]

Db 209 MIPVPYVEKCRPSSASVSTLTGG 231

RESULT 10
A46444
SH2-SH3 adaptor protein drk - fruit fly (*Drosophila melanogaster*)
N:Alternate names: gene drk protein
C:Species: *Drosophila melanogaster*
C:Date: 21-Sep-1993 #sequence_revision 18-Nov-1994 #text_change 03-Dec-1999
C:Accession: A46444; A46443
R:Olivier, J.P.; Raabe, T.; Henkemeyer, M.; Dickson, B.; Mhamdi, G.; Margolis, B.; S
Cell 73, 179-191, 1993
A:Title: A Drosophila SH2-SH3 adaptor protein implicated in coupling the sevenless ty
A:Reference number: A46444; MUID:93214990
A:Accession: A46444
A:Status: preliminary
A:Molecule type: mRNA
A:Residues: 1-211 <COLT>
A>Note: sequence extracted from NCBI backbone (NCBIN:128546, NCBIPI:128547)
R:Simon, M.A.; Dodson, G.S.; Rubin, G.M.
Cell 73, 169-177, 1993
A:Title: An SH3-SH2-SH3 protein is required for p21Ras1 activation and binds to seven
A:Reference number: A46443; MUID:93214989
A:Accession: A46443
A:Status: preliminary; not compared with conceptual translation
A:Molecule type: nucleic acid
A:Residues: 1-211 <SIM>
A:Cross-references: GB:L12446; NID:g304808; PID:g304809
A>Note: sequence extracted from NCBI backbone (NCBIP:128545)
C:Genetics:
A:Gene: drk; E(sev)2B
A:Cross-references: FlyBase:FBgn0004638
A>Note: Downstream of Receptor Kinases (drk)
C:Superfamily: crk transforming protein; SH2 homology; SH3 homology
E:60-149/Domain: SH2 homology <SH2>
E:159-206/Domain: SH3 homology <SH3>

Query Match	13.68;	Score 236;	DB 2;	Length 211;
Best Local Similarity	29.68;	Pred. No. 1.3e-10;		
Matches	56;	Conservative	37;	Mismatches 64;
				Indels 32;
				Gaps 5

[illegible]

RESULT 11
S26050
growth factor receptor-bound protein, GRB2 - rat
N.Alternate names: Ash-m; Ash-s; gene ash protein
C.Species: Rattus norvegicus (Norway rat)
C.Date: 13-Jan-1995 #sequence revision 13-Jan-1995 #text_change 21-Jan-2000
C.Accession: S26050; I55429; I70120
R.Matuko, K.; Shidrata, M.; Yamakawa, A.; Takenawa, T.
Proc. Natl. Acad. Sci. U.S.A. 89, 9015-9019, 1992
A.Title: Cloning of ASH, a ubiquitously protein composed of one Src homology region (SH
A.Reference number: S26050; MUID:93028395
A.Accession: S26050
A.Status: preliminary

[illegible]

```

A:Reference number: Z18361
A:Accession: T15499
A:Status: preliminary; translated from GB/EMBL/DBJ
A:Molecule type: DNA
A:Residues: 1-228 <MIN>
A:Cross-references: EMBL:U29082; NID:9861384; PID:9861389; PIDN:AAA68405.1
A:Experimental source: strain Bristol N2
C:Genetics:
A:Gene: sem-5
A:Introns: 26/3; 60/2; 101/2; 137/2; 183/1
C:Superfamily: crk transforming protein; SH2 homology; SH3 homology
F:53/Domain: SH3 homology <SH1>
F:60-151/Domain: SH2 homology <SH2>
F:161-208/Domain: SH3 homology <SH32>

Query Match          11.7%; Score 202; DB 2; Length 228;
Best Local Similarity 25.1%; Pred. No. 4.9e-08;
Matches 54; Conservative 39; Mismatches 68; Indels 54; Gaps 6

OY 7 NFDSEERSWYMCRLTROEAVALLQOQ--RHGVFLVIRDSSTPGDYLVSSENSRVSHY 64
   ||::||::||::||::||::||::||::||::||::||::||::||::||::||::||
DB 51 NRIIMTFCNNYIKLITRNDAEVLAKPKPYRROCHFLVRCCESSPEEFSSIVRFQDSYQHEK 110
OY 65 INSSGPRPPVPSPDAPPPGVSPBSRLRGDQ-----EFDSLPALLEFYKTIHYLDTT 115
   :      :      :      :      :      :      :      :      :      :
DB 111 V-----LRDNGKXYLMAVTFNSLNLVAYHRTASVSRT 144
OY 116 TLIEPVARSHQSGVILLROE--EAELYVALPDFNGNDEEDLPKKKDDILRIIRDPEEQW 172
   ||      :      :      :      :      :      :      :      :      :
DB 145 -----HTLLSDMNVETKEFYQALDFEFPQSGELAKRQDVTITLTKNDPPNN 191
OY 173 WNAEDSEGRKGMIPVYVEKYRPPASASVALIGCN 207
   :      :      :      :      :      :      :      :      :
DB 192 WEGQ-LNNRGRGIPPSNYVCPYNSKNSNSVAVGCFN 225

Search completed: September 27, 2001, 16:42:24
Job time: 192 sec

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